

Application No.: 10/004847

Case No.: 57320US002

**Amendments to the Claims:**

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1. (Original) A urethane composition comprising the reaction product of:
  - a. An aliphatic polyisocyanate having three or more isocyanate groups; and
  - b. A fluorochemical of the formula  $R_f\text{-SO}_2\text{N(R}^1\text{)-R}^2\text{-Z}$ ;  
wherein  $R_f$  a perfluoroalkyl or perfluoroheteroalkyl group having from 3 to about 6 carbon atoms,  
 $R^1$  is a lower alkyl group,  
 $R^2$  is an alkylene or heteroalkylene group, and  
 $Z$  is an isocyanate-reactive functional group, and  
said fluorochemical is in an amount sufficient to react with at least about 50% of the available isocyanate groups
2. (Previously presented) The composition of claim 1 comprising the further reaction product of an aliphatic monofunctional compound with said aliphatic polyisocyanate.
3. (Original) The composition of claim 2 wherein said aliphatic monofunctional compound is of the formula  $R''' \text{-Z}$ , wherein  $R'''$  is an aliphatic group and  $Z$  is an isocyanate-reactive functional group.
4. (Original) The composition of claim 3 comprising compounds of the formula  $(R_f^*)_n\text{A(NHCO-Z'R''')}_{m-n}$ ,  
wherein  $R_f^*$  is  $R_f\text{-SO}_2\text{N(R}^1\text{)-R}^2\text{-Z'}$ ,  
 $Z'$  is the residue of  $Z$ ,  
 $A$  is the residue of said aliphatic isocyanate, having valency  $m$ ,  
 $R'''$  is an aliphatic radical, and  
 $n$  (average) is at least 1.5.

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5. (Original) The composition of claim 1 wherein  
R<sub>f</sub> a fluorinated carbon chain having from 3 to about 6 carbon atoms,  
R<sup>1</sup> is a -H or -CH<sub>3</sub>,  
R<sup>2</sup> is an alkylene group having 1 to 3 carbon atoms, and  
Z is -OH.
6. (Original) The composition of claim 3 wherein the amount of aliphatic monofunctional compound is in an amount sufficient to react with the remaining available isocyanate groups.
7. (Original) The composition of claim 3 wherein the amount of aliphatic monofunctional compound is in an amount sufficient to react with 15% or less of the available isocyanate groups.
8. (Original) The composition of claim 1 wherein the amount of fluorochemical is in an amount sufficient to react with 75% or more of the available isocyanate groups.
9. (Original) The composition of claim 1 wherein R<sub>f</sub> is a perfluorinated alkyl group.
10. (Original) The composition of claim 1 further comprising a hydrophilic anti-staining compound.
11. (Previously presented) A fibrous substrate treatment composition comprising the urethane composition of claim 1 and a solvent.
12. (Original) The treatment composition of claim 11 comprising from about 0.05 to 10 weight percent of the urethane composition.
13. (Original) A method for imparting stain-release characteristics to a fibrous substrate comprising the steps of:
  - (a) applying a treatment composition of claim 12, and.

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(b) allowing the treatment composition to cure.

14. (Previously presented) The method of claim 13 wherein said treatment composition is applied in an amount sufficient to provide between 0.05% and 3% solids on fiber.

15. (Original) The method of claim 14 wherein said composition is cured at ambient temperature.

16. (Original) An article comprising:

a fibrous substrate having a cured coating derived from at least one solvent and a chemical composition of claim 1.

17. (Original) The composition of claim 1 further comprising a surfactant.